

### PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTIO	See Notification	on of Transmittal of International							
77874 BC/lsj	FOR FURTHER ACTIV		xamination Report (Form PCT/IPEA/416)							
International application No. International filing PCT/DK 03/00462 02.07.2003		month/year)	Priority date (day/month/year) 02.07.2002							
International Patent Classification (IPC) or		· PC								
A23K1/16										
Applicant										
HANSEN, John Erik										
			ernational Preliminary Examining							
Authority and is transmitted to the	e applicant according to Artic	le 36.	·							
2. This REPORT consists of a total	of 4 sheets, including this co	over sheet.	· ·							
☐ This report is also accomp	anied by ANNEXES, i.e. shee	ts of the descripti	on, claims and/or drawings which have							
been amended and are the	basis for this report and/or son 607 of the Administrative I	heets containing r	eclifications made before this Authority							
		istractions ander								
These annexes consist of a total	or sneets.									
			•							
3. This report contains indications r	elating to the following items:									
Basis of the opinion	I ⊠ Basis of the opinion									
II 🗆 Priority										
III   Non-establishment of	opinion with regard to novel	y, inventive step a	and industrial applicability							
IV  Lack of unity of inven	·									
	V 🗵 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
VI   Certain documents ci	,, -									
VII   Certain defects in the	international application									
VIII	VIII   Certain observations on the international application									
		•								
Date of submission of the demand	Dat	of completion of th	ils report							
17.12.2003	16	09.2004								
17.12.2000	10.	J3.2004								
Name and mailing address of the internation preliminary examining authority:	nal Auti	orized Officer								
European Patent Office - P B. 5818 Patentlaan 2										
NL-2280 HV Rijswijk - Pays B Tel. +31 70 340 - 2040 Tx: 31		oney, K	( <b>( )</b>							
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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK 03/00462

 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		•							
	Des	scription, Pages							
	1-9		as originally filed						
	Cla	ims, Numbers		•					
	1-5		as originally filed						
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.							
	The	se elements were available or furnished to this Authority in the following language: , which is:							
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.	1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (ur.3).	nder					
3.	Witl inte	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the atternational preliminary examination was carried out on the basis of the sequence listing:							
	☐ contained in the international application in written form.								
		filed together with the international application in computer readable form.							
	. 🗆	furnished subsequently to this Authority in written form.							
		furnished subsequer	ntly to this Authority in computer readable form.						
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disapplication as filed has been furnished.	closure					
		The statement that t listing has been furn	the information recorded in computer readable form is identical to the written se ished.	quence					
4.	The	amendments have r	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement st report.)	heet containing such amendments must be referred to under item 1 and annexo	ed to this					
<b>3</b> .	Add	litional observations,	if necessary:						

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK 03/00462

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)	Yes: No:	Claims Claims	1-5
Inventive step (IS)		Claims Claims	1-5
Industrial applicability (IA)	Yes: No:	Claims Claims	1-5

2. Citations and explanations

see separate sheet

#### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US-A-6 156 333 (LANGREHR JANA S) 5 December 2000 (2000-12-05)

D2: US-A-5 976 568 (RILEY PATRICIA A) 2 November 1999 (1999-11-02)

2. The document D1 describes feed compositions for improving the immune status of animals which may contain biotin (2.5-10%), allicin (<2%) and vitamin E, vitamin C and selenium (see D1; column 3, line 7-67, column 11, paragraph 3).

The document D2 discloses a system containing biotin, garlic, vitamin C, vitamin E, and selenium (see D2; claim 3).

The subject-matter of independent claim 1 consists in the specification of system for stabilising the external and internal immune response of animals. This kit comprises 2 parts, kit 1 and kit 2 which contain a selection of ingredients from the range of values described in the documents D1-D2. Such a selection can only be regarded as inventive, if the chosen composition presents unexpected effects or properties in relation to the rest of the range. It seems that the use of such a kit demonstrates a surprising effect in that when used with for example milch cows, kit 1 followed by a treatment with kit 2 caused digital dermatitis infection to cease and effects a cure in half of treated animals. This effect can be considered surprising as there is no teaching in the art to combine such kits to produce such effects, nor is there teaching that compositions similar to the individual kits produce such effects. As such, the subject-matter of claim 1 meets the requirements of the PCT with regard to novelty and inventive step.

3. Claims 2-5 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.